

Leena Abdelrahman

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Education

University of Illinois Urbana Champaign, Current Status: Incoming Junior Champaign, IL
Bachelor of Science in Computer Science Aug 2021 – May 2025

Experience

CodePath SITE (Summer Internship For Tech Excellence) Remote (Oak Lawn, IL)
Software Engineer Intern - JavaScript, CSS, HTML June 2023 - (Present)

- Participating in SITE, a program promoting diversity in tech, in collaboration with Course Hero. Currently gaining practical experience in full-stack web development and networking with mentors from leading tech firms.
- Integrated dynamic movie listing using The Movie Database API, featuring titles, posters, and vote counts.
- Incorporated real-time search capabilities for swift movie discovery.
- Retrieved movie data effectively using HTTP GET requests and introduced a seamless "Load More" feature.

Discover AI - AI4ALL College Pathways Program Champaign, IL
Participant - Machine-Learning, Linear Regression, Python Feb 2023 – May 2023 (4 months)

- Selected to participate in Discover AI, a virtual program offering hands-on experience in Computer Science and AI, addressing ethical issues related to AI deployment, and exploring potential tech careers.
- Developed a machine learning regression model to analyze the correlation between contributing factors (independent variables) and stress level (dependent variable), yielding a linear regression using training data.
- Successfully trained the regression model, facilitating accurate stress level predictions based on contributing factors.

Personal Portfolio Website Champaign, IL
Project - JavaScript, CSS, HTML February 2023 (3 days)

- Crafted a distinctive personal website from the ground up, utilizing HTML and CSS.
- Executed meticulous web design through CSS styling, integrating elements such as background colors, imagery, and textual content, while utilizing flexbox for effective positioning.
- Enhanced user experience by incorporating accessibility features like enlarged font sizes, descriptive 'more info' boxes, and a user-friendly grayscale viewing option.

CodeADA 48 hour Hackathon Participant Champaign, IL
Software Engineer - To-do List App, Sustainability React Webpage October 2022 (2 days)

- Reimagined an existing react template, developing a user-centric interface and homepage using React, HTML, and JavaScript to educate users and encourage action for protecting freshwater rivers.
- Constructed a to-do list app employing React Native, HTML, and JavaScript, integrating the 'onPressed' function for interactive buttons and enabling user inputs for list data modification.

CS225 - Data Structures (Road Network Project) Champaign, IL
Software Engineer - C++ Team Project November 2022 – December 2022 (2 months)

- Utilizing the City of Oldenburg Road Network dataset, our team sought to answer the key question: What is the optimal route around the City of Oldenburg?
- Researched and chose between three algorithms - Breadth First Search, Betweenness Centrality, and Dijkstra's algorithms - to answer this question.
- Implemented Dijkstra's algorithm to enable users to effortlessly navigate through the city by providing the shortest path to any destination, enhancing convenience and planning capabilities. Created a function that provides all shortest paths from any given road to a source node, complete with corresponding distances, for efficient navigation.

CS 222 - Software Design Lab Champaign, IL
Software Engineer - Machine Learning, JavaScript, HTML September 2022 – December 2022 (4 months)

- Collaborated to develop a website with features assisting users in interpreting handwriting and text.
- Gained fundamental skills in machine learning and TensorFlow through Datalore, creating a machine learning model that interprets handwritten characters using the MNIST dataset.
- Implemented a feature on the website employing Optical Character Recognition, JavaScript, and HTML to read and convert an image to text. This feature can also interpret HTML code, compile it, and provide a user preview.

Awards & Skills

Recognition: Society of Women Engineers STEM Headstart Scholar
Awards: Girls Who Code Pitch Competition Hosted by Salesforce - 1st Place
Knowledge of: UX/UI Design, Object Oriented Programming, Machine Learning, React
Software: Java, C++, HTML, CSS, JavaScript